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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files, Project [redacted] (RS-13) DATE: 3 December 1954 50X1

FROM : [redacted] 50X1

SUBJECT: Progress Report for Month of November

1. Visits to the [redacted] plant were made on 4 and 23 November to monitor progress of the equipment development. Visits were made to the [redacted] Lab on 9 and 18 November to discuss problems incident to tests being conducted for the purpose of comparing keying modes and developing receiving methods for the RS-13. The results of the meetings at the Lab are covered by the Progress Report of 24 November by [redacted] and are not included with this paper. 50X1 50X1

2. On 29 November, the Logistics officer signed off on the extension of Contract XG-1029 and the accompanying requisition for the RS-6A units, which may now be delivered to the contractor at an early date.

3. Progress at the [redacted] plant appears to be satisfactory and indications are that the time schedule is being met. The final chassis size of the transmitter has been established as 2 5/8 x 4 5/16 x 8 inches for a cubic content of 79 inches, excluding tubes. (The RT-6 is 69 cu. in., including two enclosed tubes.) On a production basis, this size may be reduced, as the use of special parts and techniques would be justified, which are not now considered feasible on these hand-built prototypes. The plug-in tuning assembly is still the object of considerable attention, as the present size is too large, 1 1/8 x 1 1/2 x 4 1/2 inches (cubic content 7.5 inches). [redacted] has been apprised of our wishes to have a tuning unit package whose cubic content is approximately that of a package of king-sized cigarettes (5.4 cu. in.) and has assured the writer that the ultimate product will approach this size. 50X1 50X1

4. An engineering model of the power supply has been constructed and tested. Electrically, the unit appeared satisfactory, although the configuration and size was not suitable. Later designs of power transformers have been made which will allow chassis designs of suitable configuration to be made. The desired size of the completed item is such that the entire unit, including the rectifiers, will be similar to that of the transmitter chassis. The selenium rectifier cells are arranged to deliver 600 and 300 volts to the transmitter from a single 600 volt transformer winding. No filament windings will be used, as the transmitter filaments will be in a series/parallel combination. A separate unit will be produced for the recharging of the batteries which will have a universal A.C. input and will operate from 70 to 240 volts and 40 to 400 cycles.

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5. Construction of the first engineering model of the keyer has started and should be completed by mid-December. Considerable time was spent designing this unit on the drawing board and was approved by the writer prior to start of unit fabrication. This item will closely follow the size, configuration, and operation of the [redacted] unit, but with certain minor improvements which will be reported after the first model has been tested. 50X1

6. [redacted] has stated that a complete engineering model should be available for inspection and test by the first of the year. 50X1

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